



3560.002827.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
MASAKAZU MATSUGU)
Application No.: 09/878,296)
Filed: June 12, 2001)
For: APPARATUS AND METHOD)
FOR DETECTING OR)
RECOGNIZING PATTERN)
BY EMPLOYING A)
PLURALITY OF FEATURE)
DETECTING ELEMENTS)
Examiner: M. Bell
Group Art Unit: 2121
September 7, 2004

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Further to the Information Disclosure Statement filed August 1, 2001,
Applicant respectfully directs the Examiner's attention to the documents listed below and
on the attached Form PTO-1449. A copy of each document so listed is enclosed, with the
exception of document 9, as it was submitted with the earlier-filed Information Disclosure
Statement.

I hereby certify that this correspondence is being deposited with the
United States Postal Service as first-class mail in an envelope addressed
to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-
1450 on

September 7, 2004
(Date of Deposit)

09/13/2004 MAHMED1 00000054 09878296

02 FC:1806

180.00 DP

Frank L. Cire, Reg. No. 42,419
(Name of Attorney for Applicant)

Signature

September 7, 2004
Date of Signature

- (1) JP 2879670
- (2) JP 5-108804
- (3) JP 5-37317
- (4) JP 8-321747
- (5) JP 10-327054
- (6) JP 2717662
- (7) JP 2941847
- (8) JP 2763296
- (9) Culhane, S.M. et al., "An Attentional Prototype for Early Vision", Dept. Computer Science, Univ. Toronto (1992), pp. 551-560
- (10) LeCun, Y. and Bengio, Y., "Convolutional Networks for Images Speech, and Time Series", Handbook of Brain Theory and Neural Networks (M. Arbib, Ed.), MIT Press (1995) pp. 255-258
- (11) IEEE Trans. on Neural Networks Vol. 10, pp. 540
- (12) Daugman, J.G., "Uncertainty relation for resolution in space, spatial frequency, and orientation optimized by two-dimensional visual cortical filters", J. Optical Soc. America A, vol. 2 (1985) pp. 1160-1169
- (13) Izhikevich, E.M., "Weakly Pulse-Coupled Oscillation, FM Interactions, Synchronization, and Oscillatory Associative Memory", IEEE Trans. on Neural Networks, vol. 10 (1999) pp. 508-526
- (14) U.S. Patent No. 5,201,029
- (15) Eckmiller, R. et al., "Information Processing in Biology-Inspired Pulse Coded Neural Networks", Proceedings 1993 Int'l. Joint Conf. Neural Networks, vol. 1 (1993) pp. 643-648
- (16) Murray, A., "Pulse Techniques in Neural VLSI: A Review", IEEE Int'l. Symposium on Circuits and Systems, vol. 5 (1992) pp. 2204-2207

English-language abstracts for documents 1 to 5 are enclosed. A concise explanation of relevance for this document is believed to be provided by the English-language abstract. English-language abstracts for documents 6 to 8 could not be found and are therefore not included.

It was stated by the Examiner in the Office Action dated May 7, 2004 that document 9 ("the Culhane reference") had been cited in the August 1 Information Disclosure Statement without a publication date. Accordingly, document 9 is being cited herein with a publication date.

Document 1 is believed to be the Japanese counterpart of U.S. Patent No. 6,088,490, which was also cited in the August 1 Information Disclosure Statement, and is being cited herein per the Examiner's request in the outstanding Office Action.


Documents 14 to 16 were cited during prosecution of a European patent application corresponding to the above U.S. application. A copy of the European Search Report, dated August 13, 2004, is enclosed.

The remaining documents were cited in the specification and are also being cited herein per the Examiner's request in the outstanding Office Action. In this regard, document 2 was cited at page 9, line 5; documents 3 and 5 at page 52, lines 15 and 16; document 4 at page 101, line 10; document 6 at page 77, lines 16 and 17; documents 7 and 8 at page 167, line 5; document 10 at page 26, lines 4 to 7; document 11 at page 34, line 1; document 11 at page 40, lines 20 to 25; and document 13 at page 60, lines 6 to 8.

Since the subject application has received an Office Action on the merits, this Information Disclosure Statement is accompanied by the requisite \$180.00 fee. The Examiner is urged to study this information in its entirety and to form an independent determination of the materiality of the information to the claimed invention. Additionally, the Examiner is requested to indicate that this information has been considered by initialing the appropriate portion of the attached Form PTO-1449.

Applicant's undersigned attorney may be reached in our Costa Mesa, CA office at
(714) 540-8700. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

A handwritten signature in dark ink, appearing to be 'Frank L. Cire', written over a horizontal line.

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)ATTY DOCKET NO.
03560.002827.APPLICATION NO.
09/878,296

APPLICANT

Masakazu Matsugu

FILING DATE

June 12, 2001

GROUP

2121

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,201,029	4/93	Jackson	395	27	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
2879670	1/99	Japan			Abstract
5-108804	4/93	Japan			Abstract
5-37317	2/93	Japan			Abstract
8-321747	12/96	Japan			Abstract
10-327054	12/98	Japan			Abstract
2717662	11/97	Japan			
2941847	6/99	Japan			
2763296	3/98	Japan			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	Culhane, S.M. et al., "An Attentional Prototype for Early Vision", Dept. Computer Science, Univ. Toronto (1992), pp. 551-560
	LeCun, Y. and Bengio, Y., "Convolutional Networks for Images Speech, and Time Series", Handbook of Brain Theory and Neural Networks (M. Arbib, Ed.), MIT Press (1995) pp. 255-258
	IEEE Trans. on Neural Networks Vol. 10, pp. 540
	Daugman, J.G., "Uncertainty relation for resolution in space, spatial frequency, and orientation optimized by two-dimensional visual cortical filters", J. Optical Soc. America A, vol. 2 (1985) pp. 1160-1169
	Izhikevich, E.M., "Weakly Pulse-Coupled Oscillation, FM Interactions, Synchronization, and Oscillatory Associative Memory", IEEE Trans. on Neural Networks, vol. 10 (1999) pp. 508-526
	Eckmiller, R. et al., "Information Processing in Biology-Inspired Pulse Coded Neural Networks", Proceedings 1993 Int'l. Joint Conf. Neural Networks, vol. 1 (1993) pp. 643-648
	Murray, A., "Pulse Techniques in Neural VLSI: A Review", IEEE Int'l. Symposium on Circuits and Systems, vol. 5 (1992) pp. 2204-2207
	Search Report, dated August 13, 2004, in EP 01 30 5231

EXAMINER

DATE CONSIDERED